

Original Articles

- 1 **Safety of Titanium Mesh for Orbital Reconstruction**
Sixty-seven orbital fractures in 55 patients were satisfactorily reconstructed with titanium mesh with only one case of subsequent enophthalmos. A single infection was drained and treated with antibiotics without the need for mesh removal.
Andrew J. L. Gear, MD
Adam Lokeh, MD
Jeffrey H. Aldridge, MD
et al
- 10 **Endoscope-Assisted Management of Varicose Veins in the Posterior Thigh, Popliteal Fossa, and Calf Area**
Lower extremity varicose veins were managed with endoscope-assisted techniques in 136 patients, using an average of 1.6 incisions of 2.5 to 3.0 cm in length. Incision maceration was common, but no hematomas were seen.
Sin-Daw Lin, MD
Kao-Ping Chang, MD
Dau-Kuan Lu, MD
et al
- 21 **Reliability of Primary Vein Grafts in Lower Extremity Free Tissue Transfers**
In a consecutive series of 103 free flaps to the lower extremities, the flap failure rate did not differ between 22 flaps with interpositional vein grafts and 81 without grafts.
Mehmet Bayramiçli, MD
Cihangir Tetik, MD
Ahmet Sönmez, MD
et al
- 30 **Anatomic Variations Related to Decompression of the Common Peroneal Nerve at the Fibular Head**
In a study of 29 cadaver dissections and 65 patients undergoing unilateral peroneal decompression, a fibrous band on the undersurface of the superficial head of the peroneus longus was found in 30% of the cadavers and in 78.5% of patients. Additional variants included a fibrous band on the superficial surface of the deep head of the peroneus longus and a common origin of the soleus and peroneus muscles.
A. Lee Dellon, MD
Johannes Ebmer, BA
Patrick Swier, MD
- 35 **Management of Neuromas in Continuity of the Median Nerve With the Pronator Quadratus Muscle Flap**
Nine in-continuity neuromas of the median nerve were covered with an island flap of the pronator quadratus muscle. Six had complete pain relief and three were improved.
R. Adani, MD
L. Tarallo, MD
B. Battiston, MD
et al
- 41 **Microsurgical Medialis Pedis Flaps for Reconstruction of Soft-Tissue Defects in the Hand**
Nineteen hand injuries were reconstructed with microsurgical medialis pedis flaps with only a single partial flap loss and average M-2PD of 10 mm. Advantages included thin glabrous skin, comparable vessel size, low donor-site morbidity, and protective sensation.
Feng-Chou Tsai, MD
Ming-Huei Cheng, MD
Hung-Chi Chen, MD
et al
- 48 **Stepladder Dorsal Metacarpal Flaps for Dorsal Finger and Hand Reconstruction**
The stepladder dorsal metacarpal V-Y advancement flap and rotation advancement flap are described for reconstruction of dorsal hand and finger defects. With this technique, each lobed flap is designed on the dorsum of adjacent fingers.
E. Okada, MD
Y. Maruyama, MD
A. Hayashi, MD

- 53 **Revascularization of Transplanted Adipose Tissue: A Study in the Dorsal Skinfold Chamber of Hamsters**
In a mouse ear chamber model, orthogonal polarization spectral (OPS) imaging was found as effective as fluorescence intravital microscopy in the direct observation and measurement of microcirculatory parameters. OPS imaging was used successfully in direct observation of the microcirculation of chronic human wounds, thereby avoiding the need for intravital fluorescent dye injection.

Stefan Langer, MD
Inga Sinitina, MD
Peter Biberthaler, MD
et al

- 60 **Heat Shock Protein and High-Dose Aspirin: Effects on Random Skin Flap Survival in a Rat Model**
In a modified McFarlane rat skin flap model, pretreatment with aspirin and/or 15-minute water bath heating to 42° core temperature resulted in equivalent improvement in flap survival over controls for all treatment groups. There was no additive effect of aspirin and heat shock proteins.

Ashkan Ghavami, MD
Mary P. Nutt, BS
Stephen P. Hardy, MD

- 68 **Difference of Molecular Response to Ischemia–Reperfusion of Rat Skeletal Muscle as a Function of Ischemic Time: Study of the Expression of p53, p21^{WAF-1}, Bax Protein, and Apoptosis**
In a rat lower limb model of ischemia–reperfusion, p53 and p21^{WAF-1} proteins accumulated after 3 and 6 hours of ischemia. In addition, the kinetics of induced p53, p21^{WAF-1}, and Bax proteins differed between 3 and 6 hours of ischemia, suggesting a key role for these proteins in the induction of apoptosis.

Mitsuo Hatoko, MD, PhD
Aya Tanaka, MD
Masamitsu Kuwahara, MD
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- Case Reports

- 75 **The V-Y Island Dorsal Nasal Flap for Reconstruction of the Nasal Tip**

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- 83 **An Unusual Complication of the Treatment of a Hemangioma**

Jeffrey J. Pokorny, MD
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- 88 **Management of Postpneumonectomy Bronchopleural–Cutaneous Fistula With a Single Free Flap**

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- 92 **Silicone Gel Breast Implant Rupture Rates: Research Issues**

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Wayne K. Stadelmann, MD

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William D. Morain, MD

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- 214 **Reply**
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- 214 **Adequate Depth of Excision for Basal Cell Carcinoma of the Nose**
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Sotaro Kurata, MD
Hiroyuki Hashimoto, MD
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- 216 **Basal Cell Carcinoma of the Scalp 70 Years After Irradiation**
Gürcan Aslan, MD
Ahmet Terzioğlu, MD
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- 217 **Basal Cell Carcinoma Metastatic to the Parotid Stroma**
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- 223 **Posttraumatic Lipogranuloma of the Hand** Fazilet Kayaselçuk, MD
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- 224 **Is Rational Flap Selection and Good Surgical Technique Sufficient for Treating Pressure Ulcers? The Importance of Psychology: A Prospective Clinical Study** Hayati Akbas, MD
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- 225 **Bridging Cleft Palate** G. Aslan, MD
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- 226 **Efficacy of Moist Exposed Burn Ointment in the Management of Cutaneous Wounds and Ulcers: A Multicenter Pilot Study** Bishara S. Atiyeh, MD, FACS
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- 228 **Announcements**

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Original Articles

- 229 **Epidemiological Investigation of Local Complications After Cosmetic Breast Implant Surgery in Denmark** Kim Kjeller, MD
Lisbet R. Hölmich, MD
Poul Harboe Jacobsen, MD
et al
A retrospective cohort study of 754 Danish women with 1,572 cosmetic breast implants showed 77.8% with no complications, 17.8% with one, 3.6% with two, and 0.8% with three or more. Capsular contracture occurred in 11.4%, hematoma in 2.3%, and infection in 2.0%.
- 238 **Health Outcomes in Offspring of Danish Mothers With Cosmetic Breast Implants** Kim Kjeller, MD
Søren Friis, MD
Lisa B. Signorello, ScD
et al
A retrospective cohort study of 2,854 children born to women with breast implants and 5,805 born to a comparison group of aesthetic surgery patients demonstrated no intergroup differences in the incidence of esophageal disorders, rheumatic disease, or congenital malformations among children born after implant surgery.

246 Laser Blepharoplasty in Asians

Three hundred forty-six Korean patients underwent blepharoplasty with CO₂ laser resurfacing. Prolonged erythema was seen in 5% and hyperpigmentation was seen in 10%, but were readily managed with topical agents.

Dong Hee Kang, MD
Jeong Ho Choi, MD
Sang Hwan Koo, MD
et al

252 Thin Anterolateral Thigh Free Flap

Twelve patients underwent anterolateral thigh free-flap transfer with extreme thinning of the flap to 4- to 5-mm thickness in all areas except for a 3-cm margin around the sole perforator. Full survival of flaps up to 30 × 18 cm was seen, with superficial marginal loss in only a single flap.

Nebojsa Rajacic, MD
Raj Kumar Gang, MS, FRCS (Ed), FICS, FACS
Jaya Krishnan, MS, Mch, FRCS (Ed)
et al

258 Soft-Tissue Reconstruction of the Foot With Distally Based Neurocutaneous Flaps in Diabetic Patients

Ten diabetic foot defects up to 10 × 12 cm in size were reconstructed with distally based sural and saphenous neurocutaneous flaps, with only a single marginal flap loss.

Serkan Yildirim, MD
Mithat Akan, MD
Tayfun Aköz, MD

265 Complications and Removal Rates of Miniplates and Screws Used for Maxillofacial Fractures

In a review of 66 patients with 87 fracture sites stabilized with 296 miniplates and 1,184 screws, hardware removal was required in 7%, predominantly in the mandible. Infection, extrusion, and visibility were the leading reasons for removal.

Kemal Islamoglu, MD
O. Koray Coskunfirat, MD
Gulsum Tetik, MD
et al

269 Prevalence of Smoking, Obesity, Diabetes Mellitus, and Thyroid Disease in Patients With Carpal Tunnel Syndrome

A retrospective case control study of 514 carpal tunnel release patients and 100 control subjects demonstrated that smoking was less common among carpal tunnel patients, but that obesity, diabetes, and hypothyroidism were more common.

Yekaterina Karpitskaya, MA
Christine B. Novak, PT, MS
Susan E. Mackinnon, MD

274 Patient Self-Reported Outcome After Ulnar Nerve Transposition

Subjective outcome was assessed among 100 patients at least 2 years after anterior transmuscular transposition of the ulnar nerve for cubital tunnel syndrome. Improvement in symptoms was described in 75% of unilateral cases, and nonsmokers reported better outcomes than smokers.

Christine B. Novak, PT, MS
Susan E. Mackinnon, MD
Alison M. Stuebe, MD

281 Epineural Sleeve Neuroorrhaphy: Surgical Technique and Functional Results—A Preliminary Report

In a rat sciatic neuroorrhaphy model, functional recovery was greater and more rapid with an epineural sleeve technique than with a conventional epineural repair.

Maria Siemionow, MD, PhD
Cihangir Tetik, MD
Kagan Ozer, MD
et al

- 286 Posterior Thigh Perforator-Based Flap: A New Experimental Model in Rats**
A reliable posterior thigh flap based on a single constant perforator was developed in the rat. Advantages include ease of elevation and the feasibility of performing two flaps in a single animal.
O. Koray Coşkunfirat, MD
Kemal İslamoğlu, MD
H. Ege Özgentaş, MD
- 292 Expression of Cyclooxygenase-2 in the Periprosthetic Capsule Surrounding a Silicone Shell Implant in the Rat**
In a rat subpectoral silicone elastomer implant model, cyclooxygenase-2 (COX-2) was found to be markedly increased up to 80 days in pericapsular macrophages, fibroblasts, and endothelial cells. Because COX-2 is an inducible enzyme that responds to inflammatory stimuli and mediates prostaglandin production, it is suggested that COX-2 inhibiting agents might be useful in modulating peri-prosthetic capsule formation.
Amy L. McLean, MD
Mia Talmor, MD
Alice Harper, BA
et al
- 298 Regeneration of Neomucosa Using Cell-Seeded Collagen-GAG Matrices in Athymic Mice**
Porous CG matrices seeded with cultured human oral mucosal cells were compared with unseeded matrices for coverage of excised dorsal wounds on athymic mice. The mucosal cells formed a stratified, differentiated epithelial layer with less wound contraction than the unseeded matrices.
Charles E. Butler, MD
Fernando A. Navarro, MD
Christine S. Park, MD
et al
- 305 Effect of Long-Term Cyclosporine Administration on Muscle Flap Hemodynamics**
In a rat cremaster muscle model, 6-week daily cyclosporine A (CsA) preadministration caused an increase in adherent leukocytes and microvascular permeability at high CsA doses. Despite moderate venulitis and focal muscle injury, the data suggest that there would be minimal risk in performing a muscle flap transfer using a CsA immunosuppressive protocol.
Murat Unsal, MD
Raffi Gurunluoglu, MD, PhD
Orhan Babuccu, MD
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- 312 Case of Constriction Band Syndrome With Annular Epidermal Cyst**
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- 318 Rare Complication of Breast Cancer Irradiation: Postirradiation Osteosarcoma**
Franjo Rudman, Jr, MD
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340 **Unknown Artifact**

Nedim Sarifakioglu, MD
Gurcan Aslan, MD
Ahmet Terzioglu, MD

Announcements

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Original Articles

343 **Use of the Latissimus Dorsi Flap for Recontouring and Augmentation After TRAM Flap Breast Reconstruction**

Yvonne L. Karanas, MD
Timothy D. Santoro, MD
William W. Shaw, MD
et al

Seven women with insufficient volume and/or projection after TRAM flap breast reconstruction underwent augmentation using the latissimus dorsi muscle.

348 **Effects of Managed Care on Teaching, Research, and Clinical Practice in Academic Plastic Surgery**

Kent T. Ta, MD, MPH
John A. Persing, MD
Henry Chauncey, Jr, BA
et al

A survey of 66 U.S. academic plastic surgery programs demonstrated an increase in percentage income from managed care between 1990 and 1997. During the same period, faculty devoted more time to clinical practice and less to research.

355 **Taste and Olfactory Disturbances After Upper and Middle Third Facial Fractures: A Preliminary Study**

Giancarlo Renzi, MD
Andrea Carboni, MD
Giulio Gasparini, MD
et al

Twenty-nine of 92 patients with upper- and/or middle-third facial fractures experienced deficits in smell or taste. The deficits were seen after nasal-zygomatic-Le Fort, fronto-orbital, and pure Le Fort fractures.

359 **Comparative Study of the Extent of Palatal Lengthening by Different Methods**

Yong Chan Bae, MD, PhD
Jong Hyun Kim, MD
Jin Lee, MD
et al

When measured with a paper ruler technique, 20 incomplete cleft palates repaired with the Furlow procedure were found to have been lengthened more so than 20 repaired with pushback. Similarly, 20 complete cleft palates repaired with two-flap palatoplasties were lengthened more so than 20 repaired with pushback.

365 **Bilateral One-Stage Rotation Advancement Technique for Saudi Children With Isolated Bilateral Incomplete Cleft Lip: Low Revision Rate Despite Multiple Imperfections**

M. M. Al-Qattan, FRCS

Nine of 10 consecutive bilateral incomplete cleft lip repairs were sufficiently acceptable in appearance that revision was not indicated.

370 **V-Y Fasciocutaneous Pudendal Thigh Flap for Repair of Perineum and Genital Region After Necrotizing Fascitis: Modification and New Indication**

Hamdy A. El-Khatib, MD

Thirteen cases of perineal necrotizing fasciitis were successfully reconstructed with V-Y fasciocutaneous pudendal thigh flaps. All experienced primary healing with retained sensibility.

- 376 **Evaluation of Scars After Harvest of the Temporoparietal Fascial Flap Depending on the Design of the Skin Incision**
In late follow-up after harvesting the temporoparietal fascial flap, 15 straight-line scars were found to be less conspicuous than 12 zigzag scars.
 Aya Tanaka, MD
 Mitsuo Hatoko, MD, PhD
 Masamitsu Kuwahara, MD
 et al
- 381 **Accurate Method for Determining Functional Penile Length in Turkish Young Men**
A study of 200 healthy men demonstrated that stretched penile lengths were moderately accurate in predicting erectile length.
 Mustafa Şengezer, MD
 Serdar Öztürk
 Mustafa Deveci
- 386 **Anthropometric Study of Alar Cartilage in Asians**
The alar cartilages were measured during 26 open rhinoplasties in Koreans and were found to be comparable in size with those of whites. However, unlike those of whites, the Korean lateral crura were most commonly concave in shape.
 Eun-Sang Dhong, MD, PhD
 Seung-Kyu Han, MD, PhD
 Chi-Ho Lee, MD
 et al
- 392 **Turnover Epineural Sheath Tube in Primary Repair of Peripheral Nerves**
In a rat sciatic nerve model, functional recovery was identical at 3 months between six-suture epineurial repairs and two-suture repairs reinforced with turnover epineural sheath tubes. Histologically, the latter demonstrated less inflammation and fibrosis because of less foreign material.
 Reha Yavuzer, MD
 Sühan Ayhan, MD
 Osman Latifoğlu, MD
 et al
- 401 **Enhancement of Muscle Flap Hemodynamics by Angiopoietin-1**
In a rat cremaster muscle model, adenovirus-mediated delivery of angiopoietin-1 induced a doubling in functional capillary density and a decrease in the permeability index over a period of 14 days.
 Raffi Gurunluoglu, MD, PhD
 Przemyslaw Lubiowski, MD, PhD
 Corey K. Goldman, MD
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- 410 **Different Venous End-to-Side Microanastomotic Techniques: Comparative Study in a New Rat Model**
In a rat venous end-to-side model, the elliptical hole and slit venotomies were equally effective in achieving anastomotic patency.
 Levent Yoleri, MD
 Ecmel Songür, MD
- 415 **Effects of Nerve Growth Factor on the Neurotization of Denervated Muscles**
In a rat denervated soleus model, peroneal nerve implantation produced more rapid functional recovery when accompanied by intraoperative and weekly intramuscular injection of NGF-7S.
 Adnan Menderes, MD
 Mustafa Yılmaz, MD
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- Case Reports**
- 423 **Phalloplasty in a Female-to-Male Transsexual Using a Double-Pedicle Composite Groin Flap**
 Tayfun Aköz, MD
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428	Split Thoracodorsal Nerve Funicular Graft Combined With Functional Latissimus Dorsi Musculocutaneous Flap Transfer for Immediate Facial Reanimation After Tumor Ablation	Motonao Iwasawa, MD Takeshi Kitazawa, MD Iwao Narimatsu, MD
431	Use of the Orbicularis Oculi Muscle Flap for Severe Marcus Gunn Ptosis	Chih-Cheng Tsai, MD Tsai-Ming Lin, MD Chung-Sheng Lai, MD et al
435	Flow-Through Use of the Osteomusculocutaneous Free Fibular Flap	Mustafa Nişancı, MD Selçuk Işık, MD Haluk Duman, MD
439	Intraosseous Ganglion of the Lunate	Della C. Bennett, MD Randy M. Hauck, MD
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447	Book Review	Jeffrey Scott Isenberg, MD, MPH
447	Use of AlloDerm for Lip Reaugmentation	F. M. Abenavoli, MD R. Corelli, MS I. Vittori, MD
448	Thermal Injury to Replanted Finger Caused by Infrared Rays	Tomas Madura, MD Tateki Kubo, MD Kenji Yano, MD et al
449	Gait Analysis: A New Perspective on Sural Nerve Graft Donor Site Morbidity Assessment	Reha Yavuzer, MD Güneş Yavuzer, MD Süreyya Ergin, MD et al

- 450 **Fetal Skin Allografts on Newborn Excisional Wounds**
Victoria Juliá, MD, PhD
M. Angeles Sancho, MD, PhD
Antonio Martínez, MD
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- 451 **Deepithelialized Double-Breasted Flap With Synovectomy of the Elbow: New Technique for the Management of Refractory Olecranon Bursitis**
A. MacQuillan, MRCS
I. C. Josty, FRCS
M. S. C. Murison, FRCS (Plast)
- 453 **Idiopathic Scrotal Calcinosis**
Güzin Yeşim Özgenel
Ramazan Kahveci
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- 455 **Announcements**

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Original Articles

- 457 **John Bostwick, Pickerell Award, 2001**
J. Barry Bishop, MD

Original Articles

- 460 **Importance of the Periareolar Approach in the Augmentation of the Ptotic Breast**
John T. Lindsey, MD
Seventeen women with grade II breast ptosis underwent submuscular augmentation mammoplasty through a periareolar approach. When compared with 49 operated through the submammary approach, the periareolar patients demonstrated improved fill of the lower pole, improved centralization of the nipple, and lessening of upper pole fullness.
- 464 **Evaluation and Treatment of Velopharyngeal Insufficiency: The University of Florida Experience**
M. Brent Seagle, MD
Mehdi K. Mazaheri, MD
Virginia L. Dixon-Wood, MA
et al
Ninety-eight patients with velopharyngeal insufficiency were individualized for one of four corrective procedures based on preoperative speech assessment, videofluoroscopy, and nasendoscopy. VPI resolution and nonnasal speech were achieved in 95% of the evaluable patients.
- 471 **Posttraumatic Craniofacial Reconstruction Using Combined Resorbable and Nonresorbable Fixation Systems**
W. Tomasz Majewski, MD
Jack C. Yu, DMD, MD
Chris Ewart, MD
et al
Nine facial fractures were stabilized using titanium plates for buttresses and resorbable plates and meshes for low-load-bearing surfaces. No ocular dysmotility, malocclusion, or progressive contour distortion was seen in follow-up.

- 477 Perforator-Based Forearm and Hand Adipofascial Flaps for the Coverage of Difficult Dorsal Hand Wounds** Daniel A. Medalie, MD
Four difficult dorsal hand wounds were successfully reconstructed with perforator-based adipofascial flaps. These flaps, unlike traditional distally based radial or ulnar artery flaps, do not leave unsightly donor areas and do not sacrifice a major artery.
- 484 Innovative Techniques in Bony Reconstruction to Facilitate Hand Salvage** Nelson L. Jenkins, MD
Janice F. Lalikos, MD
William A. Wooden, MD
et al
In five complex injuries in which distal hand components were intact and sensate, complex proximal osseous reconstruction was achieved with vascularized osteocutaneous flaps or nonvascularized bone grafts.
- 489 Surgical Treatment of Nasal Hemangiomas** Michael J. Denk, MD
Nicolás Ajkay, MD
Xiang Yuan, MD
et al
After stabilization in size, 11 pediatric nasal hemangiomas were successfully treated by excision via dorsal midline incisions and direct reconstruction. Mean number of procedures was 1.5, and subsequent growth was unaffected.
- 496 Reverse Sural Artery Flap: Caveats for Success** Mark F. Price, MD
Peter J. Capizzi, MD
Paul A. Watterson, MD
et al
Eleven complex distal-third leg wounds were reconstructed with reverse sural artery fasciocutaneous flaps; three experienced some skin loss. The authors favor Doppler evidence of peroneal perforators, a lazy-T skin paddle, inclusion of the lesser saphenous vein, and a wide adipofascial pedicle.
- 505 Scar Tissue Flaps for the Correction of Postimplant Breast Rippling** Hamid Massiha, MD, FACS
Flaps of pericapsular scar were effective in correcting postimplant rippling in the patient undergoing augmentation.
- 508 Superior Positioning of the Ptotic Umbilicus in Abdominoplasties and TRAM Flaps** Hamid Massiha, MD
Placing the umbilicus at a higher position during TRAM flap reconstruction resulted in better tension balance on the abdominal flap, greater separation from the transverse scar, and a more youthful appearance.
- 511 Drains and Seromas in TRAM Flap Breast Reconstruction** Silvia Scevola, MD
Adel Youssef, MD, PhD
Stephen S. Kroll, MD
et al
A retrospective study of 768 breast reconstructions with TRAM or deep inferior epigastric perforator flaps demonstrated that fewer seromas developed in the breast and abdomen when two suction drains rather than one were inserted. However, there was no significant difference in the rate of infection.

- 515 **Evaluations of the Aesthetic Results and Patient Satisfaction With the Pedicled TRAM Flap After Breast Reconstruction**
Aesthetic outcomes of 20 consecutive unilateral TRAM reconstructions were assessed at 3, 6, and 12 months postoperatively by patients and by two independent senior plastic surgeons. Patients rated outcomes as more satisfactory than did the surgeons, and interrater agreement was poor to fair.

Daniela Francescato Veiga, MD
Miguel Sabino Neto, MD, PhD
Élvio Bueno Garcia, MD, PhD
et al
- 521 **Reverse Temporalis Muscle Flap for the Reconstruction of Orbital Exenteration Defects**
In a rat denervated soleus model, peroneal nerve implantation resulted in better reinnervation when nerve growth factor was injected into the muscle acutely and weekly for 4 weeks.

Adnan Menderes, MD
Mustafa Yilmaz, MD
Haluk Vayvada, MD
et al
- 528 **Transconjunctival Upper Blepharoplasty: A Safe and Effective Addition to Facial Rejuvenation Techniques**
Forty-two bilateral transconjunctival upper blepharoplasties resulted in satisfactory removal of pseudoherniating medial fat without leaving a visible scar. The CO₂ laser was added if mild skin tightening was also indicated.

Aldo B. Guerra, MD
Stephen E. Metzinger, MD, FACS
Elliot B. Black, III, MD, FACS
- 534 **Correction of Cryptotia Using an External Stretching Device**
Twenty-seven cryptotic ears were corrected using an external jackscrew stretching device. When initial surgical release was added to the treatment regimen, the period of stretching could be shortened from 5 to 2 months with a concomitant reduction in pin-track complications.

Chul Park, MD
- 539 **Evaluation of Osteogenic/Chondrogenic Cellular Proliferation and Differentiation in the Xenogeneic Periosteal Graft**
In a rabbit model a xenogeneic periosteal graft from a young to an adult animal resulted in sequential chondrogenesis, ossification, and bone replacement within 45 days when accompanied by immunosuppression. The same model produced no similar activity in the absence of immunosuppression and no activity when adult periosteum was used.

Takaaki Ueno, DDS
Toshimasa Kagawa, DDS
Joji Fukunaga, DDS, PhD
et al
- 546 **Pyoderma Gangrenosum: A Great Marauder**

Grace Ma, MD
Glyn Jones, MD
Gregory MacKay, MD
- 552 **Invited Discussion**

Mark S. Granick, MD
Takkin Lo, MD

- 554 **Enterocutaneous Fistula Treated With a Fasciocutaneous Turnover Flap** Masahiro Tachi, MD
Shinichi Hirabayashi, MD
- 557 **Nonhealing Ulcerative Mass of the Elbow: Do Not Forget Tuberculosis** Sühan Ayhan, MD
Selahattin Özmen, MD
Ömer Uluoğlu, MD
et al
- 562 **Pseudomelanoma After Laser Therapy** Kun Hwang, MD, PhD
Whan Jun Lee, MD
Se Il Lee, MD, DMSc
- Special Article**
- 565 **Sir Harold Gillies and His Icelandic Connection: Gillies—Millard—Dingman—Iceland: Journey of a Painting Completed** Sigurdur E. Thorvaldsson, MD, FACS
- Editorial**
- 567 **Alphaplast** William D. Morain, MD
- 569 **Announcements**

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Original Articles

- 571 **Digital Operation Notes: A Useful Addition to the Written Record** N. D. Rhodes, FFDRCS, FRCS
S. J. Southern, FRCS(Plast)
The electronic medical record permits the easy incorporation of digital photographs into the operative note to permit greater information storage for subsequent retrieval by surgeon, pathologist, and physiotherapist.
- 574 **Ring Avulsion Replantation by Extended Debridement of the Avulsed Digital Artery and Interposition With Long Venous Grafts** Mustafa Akyürek, MD
Tunç Şafak, MD
Abdullah Keçik, MD
Successful replantations of six of seven complete avulsion injuries were accomplished with the use of long venous grafts extending as far as the digital pulp. Static 2PD averaged 7.8 mm with average total active motion of 194 degrees.

- 582 **Phenol Cauterization for Ganglions of the Hand, Wrist, and Foot: A Preliminary Report**
Ten wrist ganglion cysts were satisfactorily ablated under local anesthesia by limited open dissection, cyst evacuation, and swab application of phenol and anhydrous ethanol onto the interior lining. No recurrences were noted, and only minor skin pigmentation was occasionally seen.
S. Park, MD
T. Iida, MD
K. Yoshimura, MD
et al
- 586 **Complications of the Reverse Homodigital Island Flap in Fingertip Reconstruction**
Twenty-four reverse-flow digital artery island flaps for fingertip injuries resulted in vascular insufficiency or congestion in eight and spasm in five, resulting in partial or total loss of five flaps. Other difficulties (difficult dissection, problems covering the pedicle, sacrifice of a major digital vessel, delayed healing, unsatisfactory contour, and hypersensitivity) led the authors to recommend against the procedure as the first choice for fingertip reconstruction.
Serkan Yildirim, MD
Gülden Avcı, MD
Mithat Akan, MD
et al
- 593 **Intrafocal Pinning of Distal Radius Fractures: A Simplified Approach**
A prospective study of 18 consecutive Colles' fractures treated with intrafocal pinning disclosed superior reduction in ulnar variance and palmar tilt. The method uses two fluoroscopically guided K-wires placed into the fracture, with levering of the distal fragment into final position.
Andrew H. Rosenthal, MD
Kevin C. Chung, MD
- 600 **Free Flaps in the Treatment of Locally Advanced Malignancy of the Scalp and Forehead**
Thirty-two free tissue transfers were performed for reconstruction of major scalp and forehead malignancy defects in 29 patients, with a failure rate of 6% and a major complication rate of 10%. Of the seven donor sources, the latissimus flap was most frequently used, followed by the radial forearm flap.
D. McCombe, FRACS
R. Donato, FRACS
S. Hofer, MD
et al
- 607 **Usefulness of Color Doppler Sonography for Assessing Hemodynamics of Free Flaps for Head and Neck Reconstruction**
Color Doppler sonography was used to monitor 20 free-flap head and neck cancer reconstructions with assessments immediately and on postoperative days 1, 3, 5, and 7. One venous occlusion was detected early, resulting in expeditious reoperation and flap salvage.
Tsutomu Numata, MD
Yumiko Iida, MD
Keisuke Shiba, MD
et al

- 613 Versatility of Scanning Laser Doppler Imaging to Detect Cutaneous Perforators**
Scanning laser Doppler imaging of a 7.5 × 7.5-cm region of the anterior abdomen of 10 volunteers resulted in the accurate localization of several perforating vessels, suggesting the clinical value of the technique in preoperative planning for perforator-based flaps.
Yuzo Komuro, MD
Hiroshi Iwata, MD
Masahiro Inoue, MD
et al
- 617 Silicone Migration From Silicone-Injected Breasts: Magnetic Resonance Images**
MRI scanning 12 years after liquid silicone breast injections demonstrated well-defined nodules in breasts, lateral chest walls, presternal and suprasternal areas, and supraclavicular fossae.
Jane Wang, MD
Tiffany Ting-Fang Shih, MD
King-Jen Chang, MD, PhD
et al
- 622 Vertical Mammoplasty With a Clamp Technique**
One hundred reduction mammoplasties were performed using a superior pedicle technique, resulting in a single vertical scar. Intraoperative use of a special clamp facilitated skin excision.
Patrick Knipper, MD
- 628 Reducing the Morbidity From Extravasation Injuries, With Invited Discussion by David L. Larson, MD**
Seventeen cytotoxic extravasation injuries were treated immediately with a dilution washout technique including hyaluronidase and lignocaine injection and hydrocortisone cream. None of the patients so treated required subsequent surgical intervention.
Mansoor S. Khan, BSc (Hons),
MBChB, MRCS, AFRCS
J. D. Holmes, MChir, FRCS(Plast)
- 633 Outcomes for Surgical Coverage of Pressure Sores in Nonambulatory, Nonparaplegic, Elderly Patients**
Twenty-seven pressure ulcer operations in nonambulatory, nonparaplegic, elderly patients resulted in 50% postoperative complications, although 70% were well healed at 6 months. All seven trochanteric ulcers healed uneventfully after TFL flaps. Closure of ulcers in this population reduces morbidity, mortality, and economic burdens.
Jeffrey A. Gusenoff, BA
Richard J. Redett, MD
Maurice Y. Nahabedian, MD
- 641 Further Evidence for the Role of Fibrosis in the Pathobiology of Rhinophyma**
Immunochemical analysis of skin from eight rhinophyma patients demonstrated significantly higher levels of the fibrogenic cytokine TGF- β_1 and TGF β_1 mRNA expression than in normal nasal skin, strongly supporting the role of these fibrogenic agents in the pathobiology of rhinophyma.
Wyatt G. Payne, MD
Xue Wang, PhD
Mbaga Walusimbi, MD
et al

- 646 **Orthogonal Polarization Spectral Imaging Versus Intravital Fluorescent Microscopy for Microvascular Studies in Wounds**
In a hairless mouse ear model, orthogonal polarization spectral (OPS) imaging permitted direct visualization of the microcirculation without the need for fluorescent dyes. When compared with standard fluorescence intravital microscopy, OPS showed significant correlation with all microcirculatory parameters evaluated.
S. Langer, MD
F. Born
R. Hatz, PhD
et al

- 654 **Free Flap Transfer to the Dorsum of the Rat: A New Technique to Avoid Autocannibalization in Free Flap Studies**
In a rat model, the free groin flap was found to be readily transferable to the dorsum with a 90% success rate via anastomosis to the subscapular artery and lateral thoracic vein. The procedure prevents autocannibalization of the flap without the need for a protective vest.
Mustafa Akyürek, MD
Erhan Sönmez, MD
Ömer Özkan, MD
et al

- 660 **Effects of Different Vascular Patterns and the Delay Phenomenon on Rat Ventral Island Flap Viability**
In a rat superficial inferior epigastric artery flap model, 7-day preligation of the contralateral artery and vein permitted the surviving area to extend safely across the midline. Arterial inflow was more important than venous outflow for improvement of contralateral flap viability.
Gokhan Adanali, MD
Tamer Seyhan, MD
Murat Turegun, MD
et al

- 665 **Role of Free Radicals in Necrosis of Skin Graft Compromised With Hematoma**
In a rat model, split-thickness skin grafts were preincubated in plasma, blood, or blood plus deferoxamine. Subsequent graft survival studies and assays for MDA, SOD, and NOS demonstrated that free radicals played an insignificant role in the survival of skin grafts over a hematoma.
Michael F. Angel, MD
Feng Zhang, MD, PhD
Barbara Rogers, PhD
et al

- Case Reports**

- 670 **Extensive Cutaneous Leishmaniasis of the Upper Limb in a Patient With Leukemia**
M. M. Al-Qattan, FRCS(C)

- 672 **Penile Reconstruction for Extramammary Paget's Disease**
Mitsuo Hatoko, MD, PhD
Masamitsu Kuwahara, MD
Aya Tanaka, MD
et al

- Editorial**

- 676 **We Must Keep Moving**
David J. Smith, Jr, MD

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